AC&C Activity #1 (part c) Nearly Inert Tracers!

gas	observ. data	emission arid	total emissions	diagnostic	S
N2O	Goals: test STE fluxes of O3, N2O, CFCs, test hemispheric and intra-hem mixing (implied) test vertical turnover of troposphere				an 3D,
CFC-	,		nodels to participate		an 3D,
CFC-	Urge all AC&C#1 aerosol models to at least do SF6, which will provide test of pollutant flow to Arctic			an 3D,	
SF6	NOAA surf sites, since 1995		scale to fit obs ("box inverse")	monthly mean 3D, daily surf?	
O 3				STE flux (lat x month?)	

Ozone Hindcasts

Motivation

- Necessary to understand methane variability
- To understand impact of large IA and decadal changes in
 - STE, Emissions, El Nino, AO/NAO, Climate

What needs to be done?

- 1. Define the forcings: stratosphere, emissions
- 2. Define the observations: robust datasets of IA
- 3. Define the time period: 1980, 1990 or 2000 present
- 4. Define the diagnostics
- About 13 models interested-also high interest in analyzing, interpreting results

Methane Hindcasts

- Interest is high
- Need more discussions with the inverse community
- Discussion postponed at this meeting
 - Simulations can only begin after the ozone hindcasts

- Further write-ups from these hindcast simulations will be posted
- ➤ We welcome your inputs, comments, suggestions.....